

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. *(Currently Amended)* A method for producing a jacketed penetrator having a steel jacket and a heavy-metal core, the heavy metal core having a smooth surface, the method comprising:

heating the steel jacket to a temperature between 70 and 350 °C;

inserting the heavy-metal core into the heated steel jacket; and

allowing the steel jacket to cool down,

wherein an inside diameter of the steel jacket and an outside diameter of the heavy-metal core are such that an interference fit exists between the steel jacket and the heavy-metal core after the steel jacket has cooled down.

2. *(Currently Amended)* The method according to claim 1, wherein the steel jacket is heated to a temperature of approximately 150 °C.

3. *(Currently Amended)* The method according to claim 1, ~~wherein~~ further comprising connecting the steel jacket and the heavy-metal core ~~are additionally connected~~ by glue.

4. *(Currently Amended)* The method according to claim 1, wherein further comprising producing the steel jacket ~~is produced~~ with the aid of a powder-metallurgical method.

5. *(Currently Amended)* The method according to claim 1, wherein further comprising producing the steel jacket ~~is produced~~ through processing of a respective solid material.

6. *(Currently Amended)* The method according to claim 1, wherein the inside diameter of the steel jacket and the outside diameter of the heavy-metal core have a conical shape that has a larger diameter at a front end of the penetrator.

7. *(Currently Amended)* The method according to claim 2, wherein further comprising connecting the steel jacket and the heavy-metal core ~~are additionally connected~~ by glue.

8. *(Currently Amended)* The method according to claim 2, wherein further comprising producing the steel jacket ~~is produced~~ with the aid of a powder-metallurgical method.

9. *(Currently Amended)* The method according to claim 2, wherein further

Appl. No. 10/776,169
Amdt. Dated September 14, 2005
Reply to Office Action of April 14, 2005

comprising producing the steel jacket ~~is produced~~ through processing of a respective solid material.

10. *(Currently Amended)* The method according to claim 2, wherein the inside diameter of the steel jacket and the outside diameter of the heavy-metal core have a conical shape that has a larger diameter at a front end of the penetrator.